

**WHAT IS CLAIMED IS:**

1. A handover method for mobility of a terminal in a mobile communication system, comprising:

5 (a) performing IP (Internet protocol) acquisition through an IP registration process according to a mobile IP when a terminal in an idle state moves to a new cell; and

(b) transmitting traffic to a new moving AS (access station) from a previous AS without performing an IP modification and registration process when a terminal in an active state moves to a new cell.

10 2. The method of claim 1, wherein (b) comprises:

receiving a channel state measurement report message from the terminal;

a control AS determining a handover to set a radio link at a drift AS, and reconfigure an RLC (radio link control) layer at a serving AS;

15 transmitting an active set update message to the terminal; and starting traffic access to the drift AS.

20 3. The method of claim 1, wherein when the terminal is in the active state in (b), data traffic transmitted through the radio link following the IP/RLC/MAC/physical layer preset in the serving AS is switched to the MAC/physical layer of the drift AS through the drift AS.

4. The method of claim 3, wherein when the terminal is in the active state, the data lost while generating the link moving to the terminal from the serving AS through the drift AS at the time of generation of handover are retransmitted using the retransmission function in the RLC layer when the

handover is finished.

5        5. The method of claim 1, wherein the terminal operates according to  
a procedure of the mobile IP when the terminal is in the idle state, and it  
operates according to a mobile communication network procedure when it is in  
the active state.

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